JOURNAL OF ELECTROANALYTICAL CHEMISTRY AND INTERFACIAL ELECTROCHEMISTRY

Vol. 234 Nos. 1 and 2 September 25, 1987

CONTENTS

Voltammetry of metal complex systems with different diffusion coefficients of the species involved. Part I. Analytical approaches to the limiting current for the general case including association/dissociation kinetics
H.G. de Jong, H.P. van Leeuwen (Wageningen, The Netherlands) and K. Holub (Prague, Czechoslovakia) 1

Voltammetry of metal complex systems with different diffusion coefficients of the species involved. Part II. Behaviour of the limiting current and its dependence on association/dissociation kinetics and lability
H.G. de Jong and H.P. van Leeuwen (Wageningen, The Netherlands) 17

Comparison of the ionic adsorption theories for the electrode/solution interface by computer simulation
B. Damaskin, I. Pankratova (Moscow, U.S.S.R.), U. Palm, K. Anni, M. Väärtnõu and M. Salve (Tartu, U.S.S.R.) 31

The influence of Schmidt number and Reynolds number on the behavior of rotating ring–disk electrodes
P. Lee and J.Y. Murthy (Tempe, AZ, U.S.A.) 55

Study on the transfer of the base electrolyte ion TBA^+ across the water/nitrobenzene interface by the linear current scanning method
Z. Pang, C.A. Chang (El Paso, TX, U.S.A.) and E. Wang (Changchun, P.R. China) 71

Proton transfer across the water/nitrobenzene interface facilitated by acridine chloride
Y. Liu and E. Wang (Changchun, P.R. China) 85

Study of gold low index faces in KPF_6 solutions. Part I. Experimental behaviour and determination of the points of zero charge
A. Hamelin and L. Stoicoviciu (Meudon, France) 93

Determination of trace water in propylene carbonate using hexafluoroacetone
K.J. Hanson, L.J. Anthony and R.A. Holland (Murray Hill, NJ, U.S.A.) 107

Activation of carbon fiber microelectrodes by alternating current electrochemical treatment
J. Wang, P. Tuzhi and V. Villa (Las Cruces, NM, U.S.A.) 119

Preparation and electrochemical characterization of WSe_2 electrodes having a wide range of doping densities
C.A. Koval and J.B. Olson (Boulder, CO, U.S.A.) 133

Oxidative voltammetry of some tetraphenylporphyrins in the presence of nucleophiles leading to isoporphyrins
A.S. Hinman, B.J. Pavelich, A.E. Kondo (Calgary, Canada) and S. Pons (Salt Lake City, UT, U.S.A.) 145

Electrocatalytic oxidation of NADH by ferrocene derivatives and the influence of cyclodextrin complexation
T. Matsue, M. Suda, I. Uchida, T. Kato, U. Akiba and T. Osa (Sendai, Japan) 163

Voltammetric determination of indole in micellar and emulsified media
J.M. Pingarron Carrazon, A.J. Reviejo Garcia and L.M. Polo Diez (Madrid, Spain) 175

The electrochemical oxidation of zinc studied by ellipsometry
A. Hamnett (Oxford, Great Britain) and R. Mortimer (Cambridge, Great Britain) 185

The electroreduction of dioxygen on thin films of gold in alkaline solution
C. Paliteiro (Coimbra, Portugal), A. Hamnett and J.B. Goodenough (Oxford, Great Britain) ... 193

Ion flux during electrochemical charging of Prussian Blue films
B.J. Feldman and O.R. Melroy (San Jose, CA, U.S.A.) 213

Adsorption of ferricyanide at Pt (111) as a function of electrode potential studied by Auger spectroscopy
H. Baltruschat, F. Lu, D. Song, S.K. Lewis, D.C. Zapien, D.G. Frank, G.N. Salaita and A.T. Hubbard (Cincinnati, OH, U.S.A.) 229

(continued on p. 3 of cover)

Contents (*continued*)

Redox mediation involving oxide films as examined by surface-enhanced Raman spectroscopy: peroxodisulfate reduction at oxide-modified gold electrodes
J. Desilvestro and M.J. Weaver (West Lafayette, IN, U.S.A.) 237

Polarographic studies on the interaction between macrocyclic compounds and cations or acids in acetonitrile
M. Hojo, M. Hagiwara, H. Nagai and Y. Imai (Kochi, Japan) 251

Electrode processes on the Eu(III)/Eu(II) system in water + hexamethylphosphortriamide mixtures
M. Cetnarska and J. Stroka (Warsaw, Poland) 263

Electrochemical and spectroscopic properties of dicobalt cofacial porphyrins in non-aqueous media. Influence of the interporphyrin distance on the redox, spectrophotometric and EPR properties of the cobalt centers
Y. Le Mest, M. L'Her (Brest, France), J.P. Collman, K. Kim, N.H. Hendricks and S. Helm (Stanford, CA, U.S.A.) 277

Adsorption and reduction of iron and cobalt phthalocyanines in DMSO at glassy carbon and pyrolytic graphite electrodes
A. Owlia and J.F. Rusling (Storrs, CT, U.S.A.) 297

New results for the electrosorption of methanol on polycrystalline platinum in acid medium obtained by programmed potential voltammetry
A. Papoutsis, J.-M. Leger and C. Lamy (Poitiers, France) 315

"In situ" spectroelectrochemical studies of *N,N'*-dibenzyl and *N,N'*-diheptyl viologen radicals adsorbed on metallic (Pt, Au) electrodes
P. Crouigneau, B. Beden, A.M. Braun and O. Enea (Poitiers, France) 329

Short communications

Percolation conductivity in a perfluorosulphonic membrane with sorbed NaOH
M. Nedyalkov (Sofia, Bulgaria) and C. Gavach (Montpellier, France) 341

Clay modified electrodes. Part VIII. Electrochemical behavior at montmorillonite and polypyrrole–montmorillonite films on platinum and glassy carbon electrodes
C.M. Castro-Acuña, F.-R.F. Fan and A.J. Bard (Austin, TX, U.S.A.) 347

Potassium ion transfer across the nitrobenzene/water interface facilitated by valinomycin
J. Koryta, Y.N. Kozlov and M. Skalický (Prague, Czechoslovakia) 355

Preliminary note

On the role of ion solvation in electrode kinetics: $M^{n+} + n\,e^- \rightleftharpoons M(Hg)$
K. Maksymiuk and Z. Galus (Warsaw, Poland) 361

Book review 369

Author index 370

Subject index 371

Errata 374

JOURNAL OF ELECTROANALYTICAL CHEMISTRY AND INTERFACIAL ELECTROCHEMISTRY and BIOELECTROCHEMISTRY AND BIOENERGETICS

Publication schedule for the 1988 subscription (Please note that Vols. 233–238 appear in 1987). Publication of Bioelectrochem. Bioenerg. is behind schedule

Month	S (1987)	O (1987)	N (1987)	D (1987)	
J. Electroanal. Chem.	233/ 1+2 234/ 1+2	235/ 1+2 236/ 1+2	237/1 237/2	238/ 1+2	The publication schedule for further issues will be published later.
Bioelectrochem. Bioenerg.					